<u>AMENDMENTS TO THE CLAIMS</u>

1 to 33.   (Canceled).

34.   (New) A compound defined by the Formula:

$$R_1\text{-}AA\text{-}R_2$$

wherein AA in said Formula corresponds to an amino acid sequence selected from the group consisting of:

His-Gln-Lys-Leu-Val-Phe;

His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu;

His-His-Gln-Lys-Leu-Val-Phe;

Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala;

Val-His-His-Gln-Lys-Leu-Val-Phe;

Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe; and

Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val;

and wherein

R_1 is H or $-CO\text{-}R_3$ bonded at the α-amino group of the N-terminal of AA;

R_2 is H or $-OR_4$ or NR_5R_6 all bound to the α-carboxyl group of the α-carboxyterminal of AA;

R_3 is a straight or branched carbon chain of 1-4 carbon atoms;

R_4 is a straight or branched carbon chain of 1-4 carbon atoms;

R_5 and R_6 independently are H, alkyl, cycloalkyl, aryl or substituted aryl or together are $-(CH_2)_n-$, where n is 4-5;

R_1 and R_2 together can form a hydrocarbon ring or heterocyclic ring; and

said amino acids can be either D- or L-isomers.

35.   (New) A peptide which consists of a chemically synthesized amino acid sequence that is selected from the group consisting of:

His-Gln-Lys-Leu-Val-Phe;

Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala;

Val-His-His-Gln-Lys-Leu-Val-Phe;

Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe; and

Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val.

36.   (New) A composition, comprising the compound of claim 34 and a pharmaceutically acceptable carrier or excipient.

37.   (New) A composition, comprising the peptide of claim 35 and a pharmaceutically acceptable carrier or excipient.

38.   (New) A method for treating or preventing Alzheimer's disease or another disease characterized by amyloidosis in a patient in need thereof, comprising administering to said patient a therapeutic effective amount of the composition of claim 36.

39.   (New) A method for treating or preventing Alzheimer's disease or another disease characterized by amyloidosis in a patient in need thereof, comprising administering to said patient a therapeutic effective amount of the composition of claim 37.

40.   (New) A method for treating or preventing Alzheimer's disease in a patient in need thereof, comprising administering to said patient a therapeutic effective amount of the composition of claim 36.

41.   (New) A method for treating or preventing Alzheimer's disease in a patient in need thereof, comprising administering to said patient a therapeutic effective amount of the composition of claim 37.